

**Savitribai Phule Pune University**  
**Final Year of Computer Engineering (2015 Course)**  
**410253 D: Elective IV Open Elective – Enterprise Resource Planning**

<b>Teaching Scheme:</b> <b>TH: 03 Hours/Week</b>	<b>Credit</b> <b>03</b>	<b>Examination Scheme:</b> <b>In-Sem (Paper): 30 Marks</b> <b>End-Sem (Paper): 70 Marks</b>
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**Prerequisite Courses:** FPL – I and FPL – II, DBMS

**Companion Course:** Laboratory Practice IV (410255) – 2 credits

**Course Objectives:**

- To provide overview of Enterprise Resource Planning (ERP).
- To introduce Infor LN Industrial Machinery Solution as an ERP solution for industries.

**Course Outcomes:**

On successful completion of the course, student will be able to–

- Describe the major concepts of the Infor LN Industrial Machinery solution.
- Describe the key Dynamic Enterprise Modeler (DEM) roles / positions in a manufacturing landscape to manage the main business processes of a Logistics and Finance company structure in Infor LN.
- Describe the basic methods of access and navigation of Infor LN screens with Infor Ming.le.
- Describe the purpose of Dynamic Enterprise Modeler (DEM) and the DEM Content Pack.
- Describe the basic Infor LN architecture and tools.
- Describe the basic data and setup required to run main process flows in Industrial Machinery solution.
- Describe the basic Infor LN item structures.
- Describe the Procure to Pay processes in Infor LN.
- Describe the Order to Cash processes in Infor LN.
- Describe the Make to Order production strategy in the Infor LN solution.
- Describe the Market to Order processes in Infor LN.
- Describe the Plan to Inventory processes in Infor LN.
- Describe the Financial Plan to Report processes in Infor LN.

**Course Contents**

<b>Unit I</b>	<b>Introduction to ERP and Infor LN Industrial Machinery Overview</b>	<b>6 Hours</b>
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Defining ERP, Functional modules, Evolution of ERP, Benefits, Technology behind ERP

Major concepts of the Infor LN Industrial Machinery solution - manufacturing typologies where the Infor LN Industrial Machinery solution can be applied

Key Dynamic Enterprise Modeler (DEM) roles / positions in a manufacturing landscape - mapping of key business processes (Order to Cash, Procure to Pay, Design to Deploy, Finance) to a Logistics and Finance company structure in Infor LN

<b>Unit II</b>	<b>Infor LN Navigation, Architecture and Tools</b>	<b>6 Hours</b>
<p>Navigating Infor LN – Access and navigate Infor LN screens with Infor Ming.le, purpose of Infor Ming.le, discriminate between different navigation methods in Infor LN</p> <p>Infor LN Architecture – Infor Ming.le, ION Overview, Workflows</p> <p>Infor LN Tools Overview – Components such as Sessions, Forms, Reports, Tables and Scripts</p> <p>Dynamic Enterprise Modeler (DEM) – DEM process flow, purpose of DEM, DEM Content Pack</p>		
<b>Unit III</b>	<b>Master Data Management and Item Structures</b>	<b>6 Hours</b>
<p>Basic data and setup required to run the main process flows in the Industrial Machinery solution - concepts for establishing master data for business partners, employees, and items, process for creating a business partner (customer/supplier), process for creating a purchased item and an employee, explaining the company/entity structure</p> <p>ITEM Structure - Basic Infor LN product structures - item structures and order policies, item standards costs and cost calculations</p>		
<b>Unit IV</b>	<b>Procure to Pay</b>	<b>6 Hours</b>
<p>Procure to Pay processes in Infor LN - concepts of the Procure to Pay business processes, steps for completing main activities of the Procure to Pay processes, user profiles, purchase order entry and approval process</p>		
<b>Unit V</b>	<b>Order to Cash</b>	<b>6 Hours</b>
<p><b>Order to Cash</b> processes in Infor LN - concepts of the Order to Cash business processes, steps for completing main activities of the Order to Cash processes, sales order entry and approval process, use of Sales Order Fulfillment Workbench to check status of sales order process, approving sales orders, shipping from warehousing module</p>		
<b>Unit VI</b>	<b>Make to Order, Market to Order, Plan to Inventory and Financial Plan to Report</b>	<b>6 Hours</b>
<p><b>Make to Order</b> production methodology in Infor LN - Main business functions and business flows of the Make to Order production strategy in Infor LN</p> <p><b>Market to Order</b> process in Infor LN - concepts of the Market to Order business processes, steps to perform the Market to Order processes</p> <p><b>Plan to Inventory</b> processes in Infor LN - concepts of the Plan to Inventory business processes, steps for completing main activities of the Plan to Inventory processes, basics of Enterprise Planning in Infor LN</p> <p><b>Financial Plan to Report</b> processes in Infor LN - concepts of the Financial Plan to Report business processes, steps for completing main activities of the Financial Plan to Report processes</p>		
<p><b>Lectures from industry experts using Infor to be arranged. Site visits may be arranged. Suitable Laboratory Assignments will be framed by the Trained faculty members.</b></p>		
<p><b>Learning Resources/Text Books:</b></p> <ol style="list-style-type: none"> <li>1. Infor LN: Foundation for Industrial Machinery Training Workbook</li> <li>2. Infor LN: Implementation Scenario Overview Training Workbook</li> <li>3. Enterprise Resource Planning – Alexis Leon, Tata McGraw Hill</li> </ol>		

## Laboratory Practice IV (410255)

### Assignments for Open Elective on Enterprise Resource Planning

1. Navigate through company structures, purchased and manufactured items, business partners, departments, master data related to business orders, logistics, manufacturing and finance processes
2. Execute a cycle of sales order entry, release to warehousing, shipping and invoicing
3. Review and understand the instructor's ERP system demo involving Account Receivable cycle
4. Execute a cycle of Purchase Order entry, receiving in warehousing and closing the receipt
5. Review and understand the instructor's ERP system demo involving Account Payable cycle
6. Review and understand the instructor's ERP system demo explaining the Production Order cycle and Plan to Inventory cycle
7. Review basic steps of instructor's ERP system demo on Finance - Journal Vouchers (General Ledger) and Period Close of Account Receivable/Account Payable/General Ledger/Cost of Goods sold

**Students who have registered for this open elective will carry out the above assignments instead of assignments as mentioned in the syllabus related to the Elective IV. However, such students will have to perform assignments as mentioned in the syllabus related to the Elective III they have opted.**